	Application No.	Applicant(s)
Notice of Allowability	09/703,157	FRAZIER ET AL.
	Examiner	Art Unit
	Baoquoc N. To	2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to <u>02/27/2006</u>.

2. ☒ The allowed claim(s) is/are <u>1-2, 4, 8-9 13-14 and 18</u>.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date <u>05/112/06</u>.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date <u>05/12/06</u> .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

JEAN M. CORRIELUS
PRIMARY EXAMINER

DETAILED ACTION

1.   Claims 1-9, 13-15 and 17-18 are pending in this application.

Drawings

2.   New corrected drawings in compliance with 37 CFR 1.121(d) are required in this

application because the drawing is not formal. Applicant is advised to employ the

services of a competent patent draftsperson outside the Office, as the U.S. Patent and

Trademark Office no longer prepares new drawings. The corrected drawings are

required in reply to the Office action to avoid abandonment of the application. The

requirement for corrected drawings will not be held in abeyance.

EXAMINER'S AMENDMENT

3.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with James Stover on 05/11/2006.

Please amend the application as follow:

1. (Currently Amended) A method of gathering data from a database,

comprising:

storing within a database table, objects containing <u>geospatial</u> ~~image~~ data, said database table comprising at least one row including objects having multiple data types, each data type being stored within a different column within said database table, <u>said multiple data types include at least one of the following elements: an image, points, lines, and polygons</u>;

receiving, in a server system, objects <u>containing geospatial data</u> extracted from at least one row of said database table in response to a first request received from a client system, the objects corresponding to one or more layers;

in the server system and in response to said first request, combining the objects and creating a first <u>markup language</u> file containing a representation of the image data for communication to the client system;

displaying said representation of the image data in the client system;

generating a second request for at least one additional layer of image data in response to a selection at said client system of an element of the displayed representation of the image data in the client system;

receiving, in said server system, additional objects <u>containing geospatial data</u> extracted from at least one additional row of said database table in response to said second request received from said client system, the objects corresponding to said at least one additional layer of image data;

in the server system and in response to said second request, combining the additional objects and creating a second <u>markup language</u> file containing an updated representation of the image data for communication to the client system; and

displaying said updated representation of the image data in the client system.

2. (Previously Presented) The method of claim 1, wherein said database comprises an object relational database.

3. (Cancelled)

4. (Currently Amended) The method of claim 1 ~~claim 3~~, wherein creating said first and second markup language files comprises creating first and second Virtual Reality Markup Language files, respectively.

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) The method of claim 1 ~~claim 7~~, wherein combining the objects comprises combining two or more of the image, points, lines, and polygons.

9. (Currently Amended) The method of claim 8, wherein creating said first and second markup language files comprises creating first and second Virtual Reality Markup Language files, respectively.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) A system comprising:

a database including a database table, said database table comprising at least one

row including objects containing geospatial data, said objects having multiple data

types, each data type being stored within a different column within said database

table, said multiple data types including at least one of an image, points, lines, and

polygons;

an interface to said database system;

an interface to a client system;

a controller adapted to receive a first request from the client system, and

in response to said first request: receive objects containing geospatial data extracted

from the database system and combine the objects into a first <u>markup language</u> file that

provides a visual representation of the image data;

means for displaying said visual representation of the image data in the

client system; and

said controller further adapted to receive a second request from the client

system generated in response to a selection at said client system of an element of the

displayed representation of the image data in the client system, and in response to said

second request: receive additional objects containing geospatial data extracted from the

database system and combine the additional objects into a second <u>markup language</u>

file that provides an updated visual representation of the image data.

14. (Original) The system of claim 13, wherein the database system comprises an object relational database system.

15. (Cancelled)

16. (Canceled)

17. (Cancelled)

18. (Currently Amended) The system of claim 13, wherein the first and second markup language files comprise first and second Virtual Reality Markup Language files, respectively.

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

Allowable Subject Matter

4.   Claims 1-2, 4, 8-9, 13-14 and 18 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claim 1, none of the known prior art alone of in combination either teach or

suggest "receiving, in a server system, objects <u>containing geospatial data</u> extracted

from at least one row of said database table in response to a first request received from

a client system, the objects corresponding to one or more layers; in the server system

and in response to said first request, combining the objects and creating a first <u>markup</u>

<u>language</u> file containing a representation of the image data for communication to the

client system; displaying said representation of the image data in the client system;

generating a second request for at least one additional layer of image data in response

to a selection at said client system of an element of the displayed representation of the

image data in the client system; receiving, in said server system, additional objects

<u>containing geospatial data</u> extracted from at least one additional row of said database

table in response to said second request received from said client system, the objects

corresponding to said at least one additional layer of image data; in the server system

and in response to said second request, combining the additional objects and creating a

second <u>markup language</u> file containing an updated representation of the image data

for communication to the client system; and displaying said updated representation of

the image data in the client system" and in conjunction with "storing within a database

table, objects containing geospatial ~~image~~ data, said database table comprising at least one row including objects having multiple data types, each data type being stored within a different column within said database table, <u>said multiple data types include at least one of the following elements: an image, points, lines, and polygons</u>."

Claims 2, 4 and 8-9 are depended on claim 1; therefore, claims 2, 4 and 8-9 are allowed under the same reason as to claim 1.

Claim 13 is the system to perform the steps similar to claim 1; therefore, claim 13 is allowed under the same reason.

Claims 14 and 18 are depended on claim 13; therefore, claims 14 and 18 are allowed under the same reason as to claim 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent or US Pub:

Berger et al.   (US. Patent No. 6,230,174 B1)   Patent date: 05/08/2001.

Bertis   (US. Patent No. 6,720,981 B1)   Patent date: 04/13/2004.

NPL:

Atalay et al. An SGML based viewer for form documents, Document Analysis

Recognition, Proceed International Conference, date: 09/20-22/1999, pages 201-204.

DeFazio, S Database extensions for complex forms of data, Data Engineering, 1999.

Proceedings., 15th International Conference, date: 03/23-26/1999, pages 166.

Lovelace et al. Internet-based system for diagnosis of coronary artery disease,

Computers in Cardiology 1998, date: 09/13-16/1998, pages 45-48.

Taghva et al. Utilizing XML Schema for Describing and Querying Still image Database,-

Information Technology: New Generations, 2006. ITNG 2006, date: 04/10-12/2006,

pages 695-700.

Royappa et al. Implementing catalog clearinghouses with XML and XSL, Symposium

on Applied Computing, Proceedings of the 1999 ACM Symposium of Applied

computing, date: 1999, pages 616-621.

Salminen et al. Requirements for XML document database systems, Proceedings of

the 2001 ACM Symposium on Document engineering, date: 2001, pages 85-94.

B. Fraser et al. Dynamic views of SGML tagged documents, ACM Special Internet

Group for Design of Communications, Proceedings of the 17th annual international

conference on Computer document, date: 1999, pages 93-98.

Contact Information

6.   Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-
4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached
on Monday-Friday: 8:00 AM – 4:30 PM, EST.

        If attempts to reach the examiner by telephone are unsuccessful, the examiner's
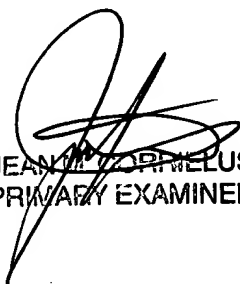supervisor, John Breene can be reached at 571-272-4107.

        Any inquiry of a general nature or relating to the status of this application or
proceeding should be directed to the receptionist whose telephone number is (703) 305-
3900.

        Any response to this action should be mailed to:
        Commissioner of Patents and Trademarks
        Washington, D.C. 20231.

        The fax numbers for the organization where this application or proceeding is
assigned are as follow:
        (571) –273-8300   [Official Communication]

BQ To
Mar 12th, 2006

JEAN M. CORRELUS
PRIMARY EXAMINER